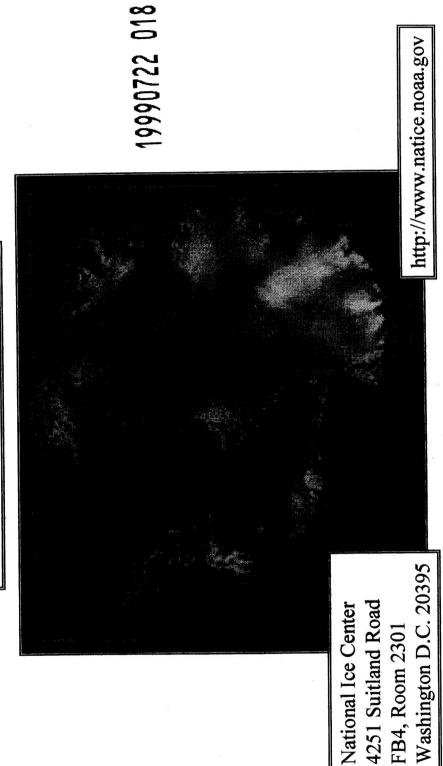


## National Ice Center Antarctic Sea Ice Atlas 1995





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## PREFACE

The National Ice Center (NIC), under sponsorship of the United States Navy, the United States Coast Guard, and the National Oceanic and Atmospheric Administration (NOAA), provides sea ice analyses encompassing the "Arctic" and the "Antarctic". These analyses continue the data set established under our previous name, the Joint Ice Center. These atlases continue the near real-time integration of remotely sensed data and point observations and differ only in that the Arctic and Antarctic are split into two separate publications per hemisphere per vear.

separate publications per hemisphere per year.

This publication is the 10<sup>th</sup> edition of the annual "Antarctic Sea Ice Atlas" published in hard copy format by the NIC. The atlas contains weekly charts depicting the sea ice extent and coverage in the Southern Hemisphere from the first week of January through December 1995.

The NIC uses a wide variety of data sources in the production of sea ice analyses. Table 1 lists the data sources used to produce the Antarctic weekly ice analyses contained in this publication. The line types used in the analyses provide metadata information with regard to sensor type. Solid lines depict boundaries derived from: point observations, Defense Meteorological Satellife Program Operational Line Scan (DMSP OLS) and NOAA Advanced Very High-Resolution Radiometer (AVHRR) data. Dash-dash-dotted line depicts boundaries derived from DMSP Special Sensor Microwave Imager (SSMI), and dashed lines depict boundaries derived from forecast models and climatology.

Please direct questions or comments to the NIC Liaison Branch, at phone number (301) 457-5303 extension 311 or 303, facsimile number (301)457-5300, or electronic mail address: <u>liaison@natice.noaa.gov</u>

Atlas addendum: This publication is intended to serve as an interim solution, while transitioning to distribution via CD-ROM. The purpose of this atlas is to make all National Ice Center (NIC) sea ice charts available to customers using NIC designated archive centers. By fall 1999, it is anticipated that NIC will complete and distribute Arctic/Antarctic ice atlases on CD-ROM for 1995, 1996, 1997 and 1998. It should be noted that the charts presented in this atlas have been drawn by hand for operational use. Corrections to "hand annotations" are visible on some of the charts in the atlas.

From	<u>1</u>	Sensor Platform	Sensor and Type	Spectral Region	Resolution Coverage	Coverage
-95	12-95	01-95 12-95 DMSP F-10 11		0.4 to 1.1m	0.55 km	3,012km
		12, 13		10.2 to 12.8 µm	L	6
			SOMIL	19.35 and 37GHz	E 20 KM	3,012Km
1	70.07	44014	0.00		1	
Ç P	CR-7	12. 14 12. 14	HRPT/LAC		nadir:	4,000km
			VIS	0.58 to 0.68 µm	2.5km at	
			NIR R	0.72 to 1.10 µm	swath	
			≅	3.55 to 3.9µm	edge	

**FABLE 1. 1995 Antarctic Satellite Data Sources** 

Note: DMSP F-13 launched 03/24/95

## Abbreviations and Acronyms:

AVHRR- Advanced Very High Resolution Radiometer

cm- centimeter GHz- GigaHertz

HRPT- High Resolution Picture transmission

R- Infrared

km- kilometer

LAC- Local Area Coverage

NIR- Near Infrared

OLS- Operational Linescan System

SSM/I- Special Sensor Microwave Imager

um- micrometer

/IS- Visible

Antarctica satellite composite courtesy of United States Geological Survey, Flagstaff, AZ.

(http://TerraWeb.wr.usgs.gov/TRS/projects/Antarctica/color/images).

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